

United States Patent [19]

Wiesenberger et al.

[11] Patent Number: **4,486,413**

[45] Date of Patent: **Dec. 4, 1984**

[54] **PROTEIN CONTAINING CONDITIONING DRINK**

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[21] Appl. No.: **416,761**

[22] Filed: **Sep. 10, 1982**

[30] **Foreign Application Priority Data**

Sep. 21, 1981 [DE] Fed. Rep. of Germany 3137440

[51] Int. Cl.³ **A61K 37/00**; A23L 2/00;
A23L 1/30; A23C 17/00; A23J 1/00; A23K
1/175

[52] U.S. Cl. **424/177**; 426/599;
426/590; 426/72; 426/73; 426/583; 426/656;
426/74

[58] Field of Search 426/599, 590, 74, 72,
426/73, 583, 656; 424/177

[56] **References Cited**

U.S. PATENT DOCUMENTS

1,759,706 5/1930 Nielsen 426/599

2,919,195	12/1959	Block	426/599
3,897,570	7/1975	Yokotsuka et al.	426/599
3,917,852	11/1975	Maraulja et al.	436/599
3,930,039	12/1975	Kuipers	426/583
3,949,098	4/1976	Bangert	426/583
4,061,792	12/1977	Inagami et al.	426/599
4,078,092	3/1978	Nishiyama	426/599
4,107,334	8/1978	Jolly	426/583
4,200,662	4/1980	Scibelli	426/583
4,358,464	11/1982	Soehnlen	426/583

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[57] **ABSTRACT**

Protein-containing conditioning drink on the basis of a mineral- and vitamin-enriched fruit juice beverage, which consists of a content of 30 to 90 wt. % of a fruit juice or of a mixture of different fruit juices corresponding to a content of 4 to 20 wt. % of solids, a content of 2 to 20 wt. % of a liquid whey concentrate corresponding to a whey protein content of 1.2 to 5 wt. %, whose lactose content is enzymatically cleaved, and/or of partially hydrolyzed soya protein, as well as a natural flavor adjustment flavoring, plus mineral salts and added vitamins, and has a pH between 4.0 and 5.0, preferably of pH 4.2 to 4.4.

12 Claims, No Drawings